



United States Environmental Protection Agency  
Office of Environmental Measurement & Evaluation  
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## Laboratory Results

November 14, 2017

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US EPA New England R1

Project No: 17100023

Project: Merrymeeting River - New Durham, NH

Analysis: Ammonia as N

EPA Chemist: Bhavita Patel

Date Samples Received by the Laboratory: 10/19/2017

### Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, EIASOP-INGAMMO0.

This SOP is based on the Lachat method 10-107-06-1-X and EPA method 350.1 "Determination of Ammonia Nitrogen by Semi Automated Colorimetry, Rev 2.0, August 1993.

Samples were digested using Lachat micodistillation unit. Samples were analyzed on Lachat Automated Ion Analyzer.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

Data were reviewed in accordance with the internal verification procedures described in the EPA New England Quality Manual for NERL.

If you have any questions please call me at .

Sincerely,

17100023AMMO

**Qualifiers:**

**RL** = Reporting limit

**ND** = Not Detected above Reporting limit

**NA** = Not Applicable due to high sample dilutions or sample interferences

**NC** = Not calculated since analyte concentration is ND.

**J** = Estimated value

**J1** = Estimated value due to MS recovery outside acceptance criteria

**J2** = Estimated value due to LFB result outside acceptance criteria

**J3** = Estimated value due to RPD result outside acceptance criteria

**J4** = Estimated value due to LCS result outside acceptance criteria

**E** = Estimated value exceeds the calibration range

**L** = Estimated value is below the calibration range

**B** = Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 10 times the concentration in the blank.

**R** = No recovery was calculated since the analyte concentration is greater than four times the spike level.

**P** = The confirmation value exceeded 35% difference and is less than 100%. The lower value is reported.

**C** = The identification has been confirmed by GC/MS.

**A** = Suspected Aldol condensation product.

**N** = Tentatively identified compound.

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Merrymeeting River - New Durham, NH

Ammonia as N

Matrix: Water

Sample Number	Lab ID	Collected	Extracted	Analysis	Concentration ug/L	RL ug/L	Qualifier
Blank			11/01/2017	11/01/2017	ND	79	
Comments:							
MM1	AB70636	10/19/2017 10:35	11/01/2017	11/01/2017	ND	79	
Comments:							
PM01	AB70637	10/19/2017 10:42	11/01/2017	11/01/2017	170	79	
Comments:							
PM02	AB70638	10/19/2017 10:58	11/01/2017	11/01/2017	250	79	
Comments:							
MM2	AB70639	10/19/2017 11:13	11/01/2017	11/01/2017	ND	79	
Comments:							
MM3	AB70640	10/19/2017 11:26	11/01/2017	11/01/2017	ND	79	
Comments:							
DUP	AB70641	10/19/2017 0:00	11/01/2017	11/01/2017	ND	79	
Comments:							

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Merrymeeting River - New Durham, NH

MATRIX SPIKE (MS) Results

SAMPLE ID	PARAMETER	SPIKE ADDED ug/L	SAMPLE CONCENTRATION ug/L	MS CONCENTRATION ug/L	MS % REC	QC LIMITS (% REC)
AB70640	Ammonia as N	2400	ND	2600	108	85 - 115

Comments:

Laboratory Duplicate Results

SAMPLE ID	PARAMETER	SAMPLE RESULT ug/L	SAMPLE DUP RESULT ug/L	PRECISION RPD %	QC LIMITS (%RPD)
AB70640	Ammonia as N	ND	ND	NC	20

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**Merrymeeting River - New Durham, NH**

**Laboratory Fortified Blank (LFB) Results**

PARAMETER	LFB AMOUNT SPIKED ug/L	LFB RESULT ug/L	LFB RECOVERY %	QC LIMITS %
Ammonia as N	2000	2070	104	90 - 110

Samples in Batch: AB70636, AB70637, AB70638, AB70639, AB70640, AB70641



REGION 1

## CHAIN OF CUSTODY RECORD

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